MT29 Abstracts and Technical Program



Tuesday, 1 July 2025 - Sunday, 6 July 2025 Omni Boston Hotel at the Seaport

Submission Categories (tracks)

A: Magnets for Particle and Nuclear Physics

- **A01: Superconducting Accelerator Magnets**
- **A02: Resistive Accelerator Magnets**
- A03: Wigglers and Undulators
- **A04: Particle Detector Magnets**

B: Magnets for Fusion

B01: Superconducting Magnets for Fusion

B02: Superconducting wires and cables for Fusion

B03: Technologies for Fusion: cryogenics, power supplies, joints, other

C: Magnets for High-Field Facilities

C01: Superconducting and Hybrid High-Field Magnets

C02: Resistive and Pulsed High-Field Magnets

D: Magnets for Medical, Biological, and Analytical Applications

D01: Magnets for NMR

D02: Magnets for MRI

D03: Magnets for other Medical and Biological Applications

E: Coils for Power, Energy, Transport, and other Applications

- **E01: Rotating machinery**
- E02: Wind, Wave, and Tidal Generators
- E03: Energy Storage / SMES, Levitation and Magnetic Bearings
- **E04: Transformers and Fault Current Limiters**
- **E05: Novel and Other Applications**

F: Conductors and Materials for Magnets

- F01: Low Tc Wires and Cables
- F02: MgB2 Wires and Cables
- F02: MgB2 Wires and Cables
- F03: HTS Wires and Cables
- F04: Joints between Superconductors, current leads, bus bars
- F05: Structural and Insulation materials for Magnets. Other Magnet components

G: Generic application technologies: Approaches and Tools

G01: Quench Detection and Protection, Stability of Conductors and Coils

G02: No-insulation coils

G03: Losses in Conductors and Coils, Thermal analysis

G04: Magnetization and Field Quality

G05: Mechanical Behavior and Stress

G06: Design and Analysis Tools, Novel Diagnostic Techniques

G07: Conductor and Coil Measurement/Test Techniques and Facilities

G08: Bulk and permanent magnets

H: Associated Technologies for Magnets

- H01: Cryostats and Cryogenics
- H02: Power Supplies and Flux Pumps
- H03: Other Associated Technologies